

Remarks

On February 17, 2005, Applicants submitted an Amendment After Allowance Under 37 C.F.R. § 1.312, a Request for Consideration of Information Disclosure Statement Filed Before Notice of Allowance, and a Request for Consideration of § 1.97(d) Information Disclosure Statement under 37 C.F.R. § 1.116. Because the previous amendment and accompanying requests were never considered or entered by the Examiner, Applicants are filing this Request for Continued Examination (RCE).

Amendment of Claim 3

The Applicants respectfully request that the amendment to claim 3 be entered in the application. The proposed amendment to claim 3 clarifies this claim and is unrelated to patentability.

Request for Consideration of Information Disclosure Statement Submitted on December 30, 2004

The Applicants additionally request that the Information Disclosure Statement (IDS) filed on December 30, 2004, be considered by the Examiner. Attached Exhibit A is a copy of the IDS (including a PTO-1449 form) filed on December 30, 2004, and includes a properly executed certificate of mailing under 37 C.F.R. § 1.8. Attached Exhibit B is a copy of the Notice of Allowance, which was mailed on January 18, 2005. Because the IDS was filed before the mailing date of the Notice of Allowance, the IDS should have been considered in the regular course of prosecution pursuant to 37 C.F.R. § 1.97(c).

Alternatively, because this IDS is being resubmitted prior to the mailing of a first Office action after the filing of an RCE under § 1.114, it should also be considered by the Office pursuant to 37 C.F.R. § 1.97(b)(4).

Although previously submitted, a duplicate copy of each of the non-patent and foreign references mentioned in the December 30, 2004, PTO-1449 form is included for the Examiner's convenience.

**Request for Consideration of Supplemental Information Disclosure Statement Submitted
Pursuant to 37 C.F.R. § 1.97(b)(4)**

The Applicants are additionally enclosing a Supplemental Information Disclosure Statement (IDS) and PTO-1449 form under 37 C.F.R. § 1.97(b)(4). Because this IDS is being filed prior to the mailing of a first Office action after the filing of an RCE under § 1.114, it should be considered by the Office pursuant to 37 C.F.R. § 1.97(b)(4).

Conclusion

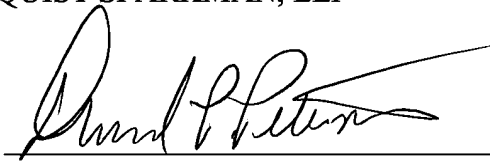
With entry of this amendment and consideration of the above-mentioned IDSs, it is believed that this application remains in condition for allowance and issuance. Should the Examiner have any questions concerning this amendment, she is invited to call the undersigned attorney.

If any additional fee is required in connection with the filing of this amendment, please charge such fee to Deposit Account 02-4550.

Respectfully submitted,

KLARQUIST SPARKMAN, LLP

By



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12/29/04 1011-54375-01 339935

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re: Application of: Rajski et al.

Application No. 09/620,021

Filed: July 20, 2000

Confirmation No. 3823

For: CONTINUOUS APPLICATION AND
DECOMPRESSION OF TEST PATTERNS
TO A CIRCUIT-UNDER-TEST

Examiner: Phung M. Chung

Art Unit: 2133

Attorney Reference No. 1011-54375-01

COMMISSIONER FOR PATENTS
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450 on the date shown below.

Attorney
for Applicants

Date Mailed

[Signature]
12/30/04

**INFORMATION DISCLOSURE STATEMENT PURSUANT TO
37 C.F.R. § 1.97(c)**

Listed on the accompanying form PTO-1449 and enclosed herewith are several English-language and/or non-English-language documents. Applicants respectfully request that these documents be listed as references cited on the issued patent. This Information Disclosure Statement ("IDS") is being mailed before Applicants received a final action, a notice of allowance, or an action that otherwise closes prosecution in the referenced application.

Copies of United States patents and United States published patent applications do not have to be provided to the Patent Office (37 C.F.R. 1.98(a)(2)(ii)). Copies of unpublished U.S. applications do not have to be provided, as long as the application is available on PAIR, as this requirement of 37 C.F.R. § 1.98(a)(2)(iii) has been waived by the United States Patent and Trademark Office pursuant to the Official Gazette Notice on October 19, 2004 (1287 OG 163). Applicants will provide copies of such patents or applications upon request.



Further, several foreign language documents are cited in the accompanying form PTO-1449. Specifically, Japanese Patent Publication Nos. 4-236378, 11-153655, and 9-130378 are cited. The abstract of Japanese Patent Publication No. 4-236378 recites that "a method and apparatus for testing a VLSI device 10 are described. The invention uses the idea that the internal logic of the VLSI device can be broken down into linked sections or cones. . . . The apparatus incorporates a Linear Feedback Shift Register (300) which is fed by a seed to produce a bit pattern to test the VLSI device (10). The seed is so chosen that the LFSR generates the required bit values on the input latches 30 which are required for the particular test being carried out and pseudo-random values for all other latches." The abstract of Japanese Patent Publication No. 11-153655 recites that the problem to be solved by the disclosed invention is "to provide an IC chip inspection device which inspects IC chips by using test data composed of many test vectors." The disclosed invention is "[a]n IC chip inspection device . . . with a pin memory, a sequencer memory, and a driving section. The pin memory stores many test blocks and each test block is the combination of at least one test vector among text [sic] vectors and repeated at least one time in test data. The sequencer memory stores the information on the designating order of the test blocks for restoring the test data." Japanese Patent Publication No. 9-130378 is understood to disclose a process for pledging data for a secure data-exchange protocol that has nothing to do with testing integrated circuits. The disclosed method, however, mentions the use of random number generators as part of the process.

Submitted herewith is a check for \$180.00 as required by 37 C.F.R. § 1.17(p) for filing this IDS in compliance with 1.97(c).

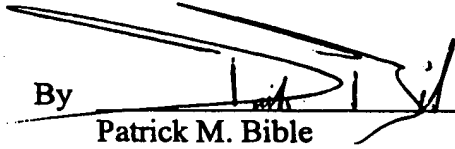


Please charge any additional fees which may be required in connection with filing this IDS, or credit any overpayment, to Deposit Account No. 02-4550. A duplicate copy of this sheet is enclosed.

The filing of this IDS shall not be construed to be an admission that the information cited in the statement is, or is considered to be, prior art or otherwise material to patentability as defined in 37 C.F.R. §1.56.

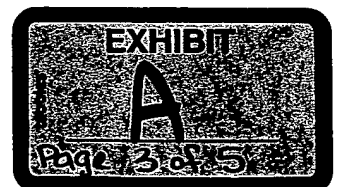
Respectfully submitted,

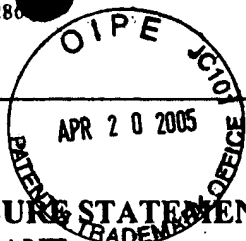
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Docketing





INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Attorney Docket Number	1011-54375-01
Application Number	09/620,021
Filing Date	July 20, 2000
First Named Inventor	Rajski
Art Unit	2133
Examiner Name	Phung M. Chung

U.S. PATENT DOCUMENTS

Copies of U.S. Patent documents do not need to be provided, unless requested by the Patent and Trademark Office. For patents, provide the patent number and the issue date. For published U.S. applications, provide the publication number and the publication date. For unpublished pending patent applications, provide the application number and the filing date.

Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
		4,536,881	8.20.1985	Kasuya
		5,870,476	2.9.1999	Fischer
		5,872,793	2.16.1999	Attaway et al.
		5,883,906	3.16.1999	Turnquist et al.
		6,122,761	9.19.2000	Park
		6,708,192	3.16.2004	Rajski et al.
		6,829,740	12.7.2004	Rajski et al.

FOREIGN PATENT DOCUMENTS

Examiner's Initials*	Cite No. (optional)	Country	Number	Publication Date	Name of Applicant or Patentee
		Europe	EP 0372226	6.13.1990	Bardell
		Europe	EP 0438322	7.24.1991	Murase
		Europe	EP 0481097	4.22.1992	Diebold et al.
		Japan	JP 4-236378	8.25.1992	Diebold et al.
		Japan	JP 9-130378	5.16.1997	Fischer
		Europe	EP 0887930	12.30.1998	Tarrab et al.
		Japan	JP 11-153655	6.8.1999	Park

EXAMINER
SIGNATURE:

DATE
CONSIDERED:

* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw in conformance and not considered. Include copy of this form with next communication to appli



INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Attorney Docket Number	1011-54375-01
Application Number	09/620,021
Filing Date	July 20, 2000
First Named Inventor	Rajski
Art Unit	2133
Examiner Name	Phung M. Chung

Examiner's Initials*	Cite No. (optional)	OTHER DOCUMENTS
		Bassett et al., "Low-Cost Testing of High-Density Logic Components," <i>IEEE Design & Test of Computers</i> , pp. 15-28 (April 1990).
		Fagot et al., "On Calculating Efficient LFSR Seeds for Built-In Self Test," <i>IEEE</i> , pp. 7-14 (1999).
		Hellebrand et al., "Generation of Vector Patterns Through Reseeding of Multiple-Polynomial Linear Feedback Shift Registers," <i>IEEE International Test Conference</i> , pp. 120-129 (1992).
		Wang, "BIST Using Pseudorandom Test Vectors and Signature Analysis," <i>IEEE Custom Integrated Circuits Conference</i> , pp. 1611-1618 (1998).

EXAMINER
SIGNATURE:

DATE
CONSIDERED:

* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw in conformance and not considered. Include copy of this form with next communication to applic

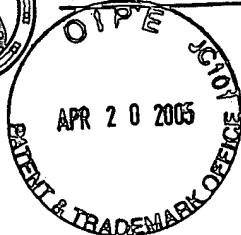




UNITED STATES PATENT AND TRADEMARK OFFICE

Mentor G. DPP

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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 01/18/2005

KLARQUIST SPARKMAN CAMPBELL
LEIGH & WHINSTON, LLP
One World Trade Center, Suite 1600
121 S.W. Salmon Street
Portland, OR 97204-2988

FILED FOR

4/18/05

4/18/05

INVENTOR

SIGNATURE

DATE

ANN. SVS

EXAMINER

CHUNG, PHUNG M

ART UNIT

PAPER NUMBER

2133

DATE MAILED: 01/18/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/620,021	07/20/2000	Janusz Rajski	1011-54375	3823

TITLE OF INVENTION: CONTINUOUS APPLICATION AND DECOMPRESSION OF TEST PATTERNS TO A CIRCUIT-UNDER-TEST

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$0	\$1400	04/18/2005

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHT. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THE STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee Transmittal and pay the PUBLICATION FEE (if required) and 1 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 require the payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE
Commissioner for Patents
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or Fax (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 3 should be completed with appropriate. All further correspondence including the Patent, advance order and notification of maintenance fees will be mailed to the current correspondence address indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

7590

01/18/2005

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Portland, OR 97204-2988

Note: A certificate of mailing can only be used for domestic mailings of Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmittal.

Certificate of Mailing or Transmittal

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (703) 746-4000, on the date indicated below.

Deposited on
By
(P)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/620,021	07/20/2000	Janusz Rajski	1011-54375	3823

TITLE OF INVENTION: CONTINUOUS APPLICATION AND DECOMPRESSION OF TEST PATTERNS TO A CIRCUIT-UNDER-TEST

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$0	\$1400	04/18/2005
EXAMINER	ART UNIT	CLASS-SUBCLASS			
CHUNG, PHUNG M	2133	714-733000			

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are enclosed:

- ☐ Issue Fee
☐ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies _____

4b. Payment of Fee(s):

- ☐ A check in the amount of the fee(s) is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other part interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/620,021	07/20/2000	Janusz Rajski	1011-54375	3823

7590

01/18/2005

KLARQUIST SPARKMAN CAMPBELL
LEIGH & WHINSTON, LLP
One World Trade Center, Suite 1600
121 S.W. Salmon Street
Portland, OR 97204-2988

EXAMINER

CHUNG, PHUNG M

ART UNIT

PAPER NUMBER

2133

DATE MAILED: 01/18/2005

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 246 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 246 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office Patent Legal Administration at (571) 272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

